

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (OLD) EXAMINATION – SUMMER 2019****Subject Code: 180603****Date: 13/05/2019****Subject Name: Professional Practice & Valuation****Time: 10:30 AM TO 01:30 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** The plan of a residential building is shown in Figure-1. Calculate quantity of following items in a quantity sheet. Adopt suitable brief specifications. **14**
1. Excavation in foundation.
 2. Plain Cement Concrete (P.C.C.) in foundation in 1:3:6.
 3. Brickwork in foundation
 4. Brickwork in super structure in cement mortar 1:4.
 5. R.C.C. work in Slab, Chhajja and Lintel (bearing 15cm).
- Q.2 (a)** Adopt suitable rates and prepare abstract sheet for the items calculated in Question 1. Also list the factors affecting the rate of items at any place. **07**
- (b)** Define specification. What are the purposes of writing specifications? Also state importance of it. **07**
- OR**
- (b)** Write detailed specifications of following items (Any two) **07**
1. Earthwork in excavation.
 2. First class brickwork in cement mortar 1:4 in super structure.
- Q.3 (a)** What is the significance of market survey in civil engineering? How the rate of an item is derived by method of rate analysis? **07**
- (b)** Define contract. Explain (i) Turn key contract (ii) Labour contract and (iii) Item rate contract **07**
- OR**
- Q.3 (a)** Calculate following. **07**
1. No. of bricks required for 1 cu.m. Brickwork.
 2. No. of cement bags for 1 cu.m. Brickwork in cement mortar 1:4.
 3. Quantity of sand for 1 cu.m. PCC in Cement mortar 1:1.5:3
- (b)** What is tender? Give detailed classification of tenders. **07**
- Q.4 (a)** Find the rate of Plain Cement Concrete (1:2:4) per cu. m. by Rate analysis. Assume suitable rates of material and labour. **07**
- (b)** Explain following related to contract **07**
- (1) Earnest Money Deposit (EMD) (2) Security Deposit (3) Liquidated Damage.
- OR**
- Q.4 (a)** Enlist and explain different methods of valuation. **07**
- (b)** Explain (i) Detailed Estimate (ii) Supplementary Estimate **07**
- Q.5 (a)** Write short note on Scrutiny of tenders. **07**
- (b)** Differentiate between **07**
- (i) Free hold property & Lease hold property.
 - (ii) Depreciation & obsolescence.

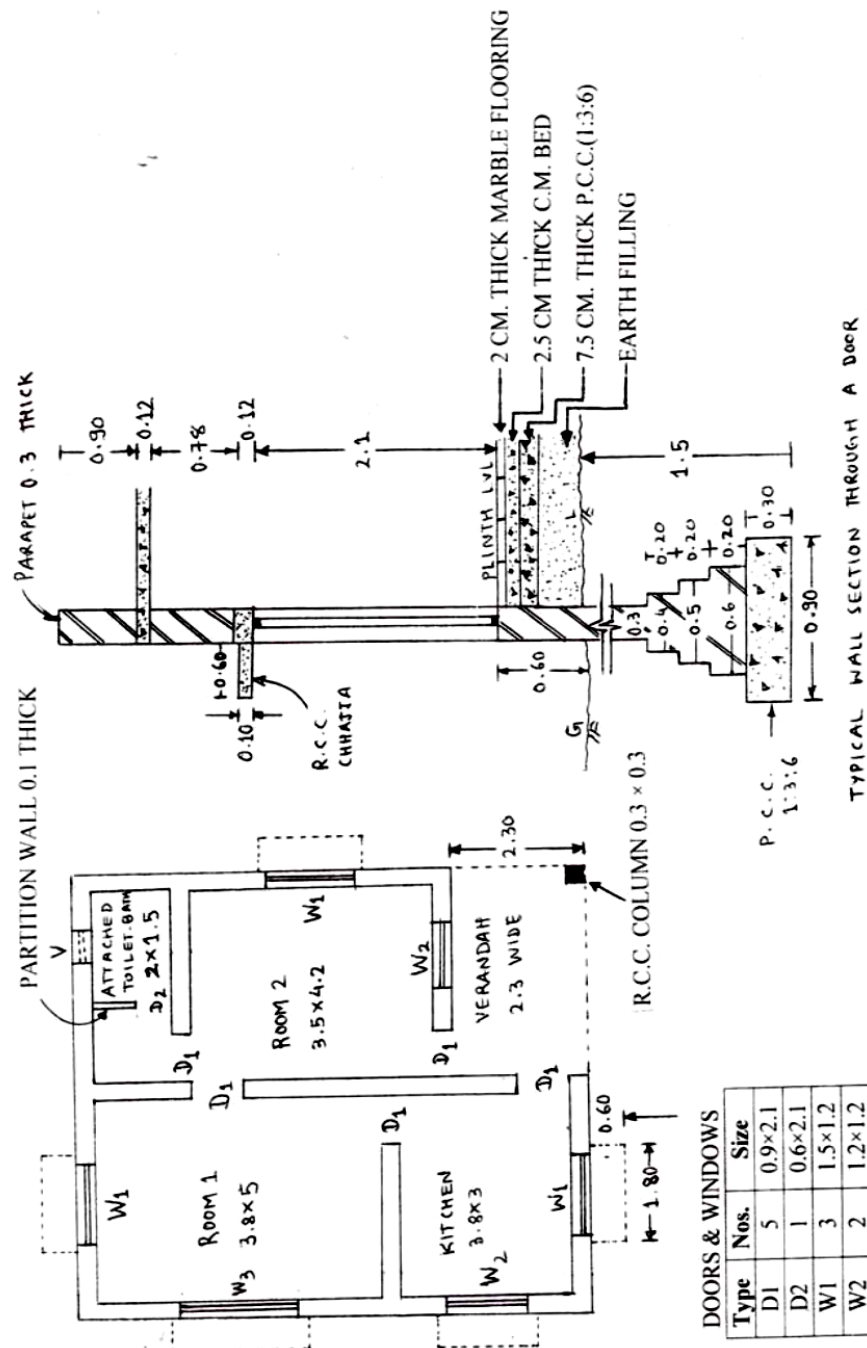
OR

Q.5

Write short notes on following (Any four)

1. Use of Valuation tables.
2. Material At Site (MAS) account.
3. Types of value.
4. Easement.
5. Measurement book (MB).

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DOORS & WINDOWS

Type	Nos.	Size
D1	5	0.9x2.1
D2	1	0.6x2.1
W1	3	1.5x1.2
W2	2	1.2x1.2
W3	1	2.0x1.2
V	1	0.6x0.45

NOTE :

1. DRAWING IS NOT TO SCALE
2. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SPECIFIED